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(54) **COMPOSITE SIMULTANEOUS MOLD AND
MOLDING METHOD OF COMPOSITE MATERIAL
FOR WHICH THE SAME MOLD IS USED**

(57) Abstract:

PURPOSE: To improve the quality of a composite material, while the molding of said member is simplified by a method in which a pair of metallic plates are simultaneously worked in separated state, and the space between both plates to be molded is filled with synthetic resin layer, and then the protrusion made of synthetic resin is molded integrally with a core layer.

CONSTITUTION: An intermediate mold 30 is put oppositely between a stationary mold 10 and a movable mold 20, and the plates 44, 44 made of metallic plates to be molded are respectively arranged therebetween. Next, the stationary, the movable and the intermediate molds 10, 20, 30 respectively are simultaneously clamped. When the press-working of each plates 44, 44 to be molded is finished, the molds are opened, and the intermediate mold 30 is retracted in vertical direction, and then the stationary mold 10 and the movable mold 20 are clamped. Then a cavity 40 is formed between the mold and the worked plates 44, 44 to be molded, and molten resin is injected through the injection path 12 of a sprue 11. After the process of dwelling and cooling have been finished, on the composite member having

been taken out, a sandwich like protrusion 72 in which the space between a pair of the plates 44, 44 made of metallic plates to be molded is filled with synthetic resin layer, is formed.

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